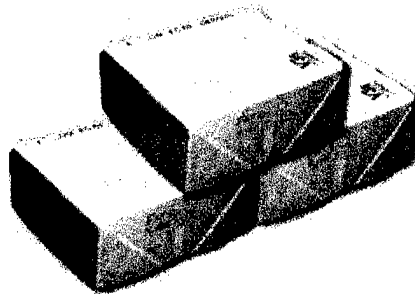


**FINAL REPORT
DECEMBER 2000**

REPORT NO. 01-11

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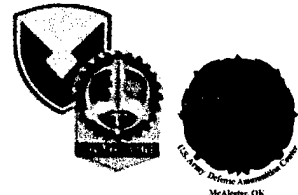


**BOX, FIBERBOARD, PACKING, REUSABLE,
COLLAPSIBLE, FOR HIGH EXPLOSIVES,
PART NO. 7548645
MANUFACTURED BY CONFEDERATE PACKAGING,
UNITED NATIONS (UN) PERFORMANCE ORIENTED
PACKAGING (POP) TESTS - RECERTIFICATION**

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Prepared For:
McAlester Army Ammunition Plant
ATTN: SMAMC-POP
McAlester, Oklahoma 74501

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**VALIDATION ENGINEERING DIVISION
MCALESTER, OKLAHOMA 74501-9053**

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Report No. 01-11

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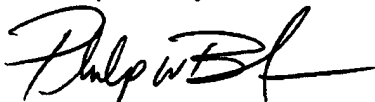
**Box, Fiberboard, Packing, Reusable, Collapsible,
For High Explosives, Part No. 7548645
Manufactured By Confederate Packaging,
United Nations (UN) Performance Oriented Packaging (POP)
Tests - Recertification**

ABSTRACT

The U.S. Army Defense Ammunition Center (DAC), Validation Engineering Division (SMAAC-DEV), was tasked by McAlester Army Ammunition Plant (MCAAP), SMAMC-POP, to conduct a UN POP Test – Recertification on Box, Fiberboard, Packing, Reusable, Collapsible, for High Explosives, Part No. 754865, manufactured by Confederate Packaging, Macon, GA.

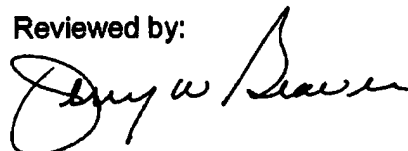
The box was evaluated using UN POP requirements. No significant flaws were found during testing. The box produced by Confederate Packaging, Macon, GA, can be used IAW UN POP requirements.

Prepared by:



PHILIP W. BARICKMAN
Lead Validation Engineer

Reviewed by:



JERRY W. BEAVER
Chief, Validation Engineering Division

U.S. ARMY DEFENSE AMMUNITION CENTER

VALIDATION ENGINEERING DIVISION
MCALESTER, OK 74501-9053

REPORT NO. 01-11

**BOX, FIBERBOARD, PACKING, REUSABLE,
COLLAPSIBLE, FOR HIGH EXPLOSIVES, PART NO. 7548645,
MANUFACTURED BY CONFEDERATE PACKAGING
UNITED NATIONS (UN) PERFORMANCE ORIENTED
PACKAGING (POP) TESTS, RECERTIFICATION**

TABLE OF CONTENTS

PART	PAGE NO.
1. INTRODUCTION	1-1
A. BACKGROUND.....	1-1
B. AUTHORITY.....	1-1
C. OBJECTIVE	1-1
D. CONCLUSION	1-1
2. ATTENDEES	2-1
3. TEST PROCEDURES	3-1
4. UN POP TESTS	4-1
5. SPECIAL PACKAGING INSTRUCTIONS	5-1

U.S. ARMY DEFENSE AMMUNITION CENTER

VALIDATION ENGINEERING DIVISION
MCALESTER, OK 74501-9053

REPORT NO. 01-11

**BOX, FIBERBOARD, PACKING, REUSABLE,
COLLAPSIBLE, FOR HIGH EXPLOSIVES, PART NO. 7548645,
MANUFACTURED BY CONFEDERATE PACKAGING
UNITED NATIONS (UN) PERFORMANCE ORIENTED
PACKAGING (POP) TESTS, RECERTIFICATION**

TABLE OF CONTENTS

PART	PAGE NO.
1. INTRODUCTION	1-1
A. BACKGROUND	1-1
B. AUTHORITY	1-1
C. OBJECTIVE	1-1
D. CONCLUSION	1-1
2. ATTENDEES	2-1
3. TEST PROCEDURES	3-1
4. UN POP TESTS	4-1
5. SPECIAL PACKAGING INSTRUCTIONS	5-1

PART 1 – INTRODUCTION

A. BACKGROUND. The U.S. Army Defense Ammunition Center (DAC), Validation Engineering Division (SMAAC-DEV), was tasked by the McAlester Army Ammunition Plant (MCAAP), SMAMC-POP, to conduct a UN POP Test for recertification of Box, Fiberboard, Packing, Reusable, Collapsible, for High Explosives, Part No. 7548645. The box was manufactured by Confederate Packaging, Macon, GA.

B. AUTHORITY. This test was conducted IAW mission responsibilities delegated by the U.S. Army Operations Support Command, Rock Island, IL. Effective 9 July 1993, the three-letter designator "DEV" was assigned for use when conducting UN POP tests. Effective 9 August 1994 this designation was included in the Joint Regulation AR 700-143, Performance Oriented Packaging of Hazardous Materials. Reference is made to the following:

1. Change 6, AR 740-1, 18 August 1976, Storage and Supply Activity Operation.

2. IOC-R, 10-23, Mission and Major Functions of USADAC, 7 January 1998.

C. OBJECTIVE. To determine if this item meets UN POP requirements.

D. CONCLUSION. As tested, the Box with part number 7548645 manufactured by Confederate Packaging meets all UN POP requirements with no problems encountered during testing.

PART 2 – ATTENDEES

DATE PERFORMED: DECEMBER 2000

ATTENDEE

Jeffery L. Dugan
General Engineer
DSN 956-8090
(918) 420-8090

Philip W. Barickman
General Engineer
DSN 956-8992
(918) 420-8992

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1 C Tree Road, Bldg. 35
McAlester, OK 74501-9053

Director
U.S. Army Defense Ammunition Center
ATTN: SMAAC-DEV
1 C Tree Road, Bldg. 35
McAlester, OK 74501-9053

PART 3 -TEST PROCEDURES

The test procedures outlined herein were extracted and summarized from the Bureau of Explosives (BOE) Tariff No. BOE-6000-L, Subpart M, Section 178.600. All tests were conducted to Packing Group II requirements.

A. DROP TEST. Each package will be dropped onto a non-yielding surface from the height and orientations listed below. The drop height is measured as the vertical distance from the target to the lowest point on the package. The drop height for Packing Group I is 1.8 meters (5.9 feet), for Packing Group II it is 1.2 meters (3.9 feet), and Packing Group III is 0.8 meters (2.6 feet). Materials which have a specific gravity (SG) exceeding 1.2, the drop height must be calculated as follows: for Packaging Group I the SG X 4.9 feet; for Packaging Group II the SG X 3.3 feet; and, for Packaging Group III the SG X 2.2 feet.

Packaging	No. of Tests	Drop Orientation of Samples
Steel drums, Aluminum drums, Metal Drums (other than steel or aluminum), Steel jerricans, Plywood drums, Wooden barrels, Fiber drums, Plastic drums and jerricans, Composite packagings which are in the shape of a drum	Six ... (three for each drop)	First drop (using three samples): The package must strike the target diagonally on the chime or, if the packaging has no chime, on the circumferential seam or an edge. Second drop (using the other three samples): The package must strike the target on the weakest part not tested by the first drop, for example a closure or, for some cylindrical drums, the welded longitudinal seam of the drum body.
Boxes of natural wood, Plywood boxes, Reconstituted wood boxes, Fiberboard boxes, Plastic boxes, Steel or aluminum boxes, Composite packagings which are in the shape of a box.	Five... (one for each drop)	First drop: Flat on the bottom (using the first sample). Second drop: Flat on the top (using the second sample). Third drop: Flat on the long side (using the third sample). Fourth drop: Flat on the short side (using the fourth sample). Fifth drop: On a corner (using the fifth sample).
Bags --- single-ply with a side seam	Three... (three drops per bag).	First drop: Flat on a wide face (using all three samples). Second drop: Flat on a narrow face (using all three samples). Third drop: On an end of the bag (using all three samples).
Bags --- single-ply without a side seam, or multi-ply	Three... (three drops per bag).	First drop: Flat on a wide face (using all three samples). Second drop: On an end of the bag (using all three samples).

B. STACKING TEST. The test sample must be subjected to a force applied to the top surface of the test sample equivalent to the total weight of identical packages that might be stacked on it during transport. The minimum height of the stack, including the test sample, must be 3.0 meters (10 feet). The duration of the test must be 24 hours, except that plastic drums, jerricans, and composite packaging 6HH, intended for liquids, shall be subjected to the stacking test for a period of 28 days at a temperature of not less than 40 degrees Celsius (104 degrees Fahrenheit). Alternative test methods that yield equivalent results may be used if approved by the Associate Administrator for Hazardous Materials Safety.

C. VIBRATION TEST. Three sample packagings, selected at random, must be filled and closed as for shipment. The three samples must be placed on a vibrating platform that has a vertical or rotary double-amplitude (peak-to-peak displacement) of one inch. The packages should be constrained horizontally to prevent them from falling off the platform, but must be left free to move vertically, bounce and rotate. The test must be performed for one hour at a frequency that causes the package to be raised from the vibrating platform to such a degree that a piece of material approximately 1.6mm (0.063 inch) thickness (such as steel strapping or paperboard) can be passed between the bottom of any package and the platform.

D. PASS/FAIL CRITERIA. A package passes the above tests if there is no rupture or leakage from any of the samples. No test sample should show any deformation that could adversely affect transportation safety or any distortion liable to reduce packaging strength.

PART 4 - UN POP TESTS

UN POP tests were conducted on the fiberboard box with part number 7548645 manufactured by Confederate Packaging. Applicable tests that were conducted were as follows:

A. VIBRATION TEST - The vibration test was conducted on 13 December 2000 on three specimens. The test ran for 1 hour for each specimen and each specimen ran at 266 cycles-per-minute. Following completion of the test, inspections revealed no damage to the boxes. Figure 1 shows the setup for the vibration tests.



Figure 1. Vibration Test Setup for UN POP Testing

B. COMPRESSION TEST. The compression test was conducted on 11-12 December 2000 for 24 hours. Initially the compression weight was set at 4,000 pounds and tested from 1100 hours on 11 December through 0700 hours on 12 December 2000. The compression weight was adjusted to the proper weight of 2,740 pounds from 0700 hours until the test was completed at 1100 hours on 12 December 2000. This weight equates to a minimum stack height of 10 feet as required by UN POP test procedures. End of test inspection indicated no damage. Figure 2 shows the setup used for the compression test.

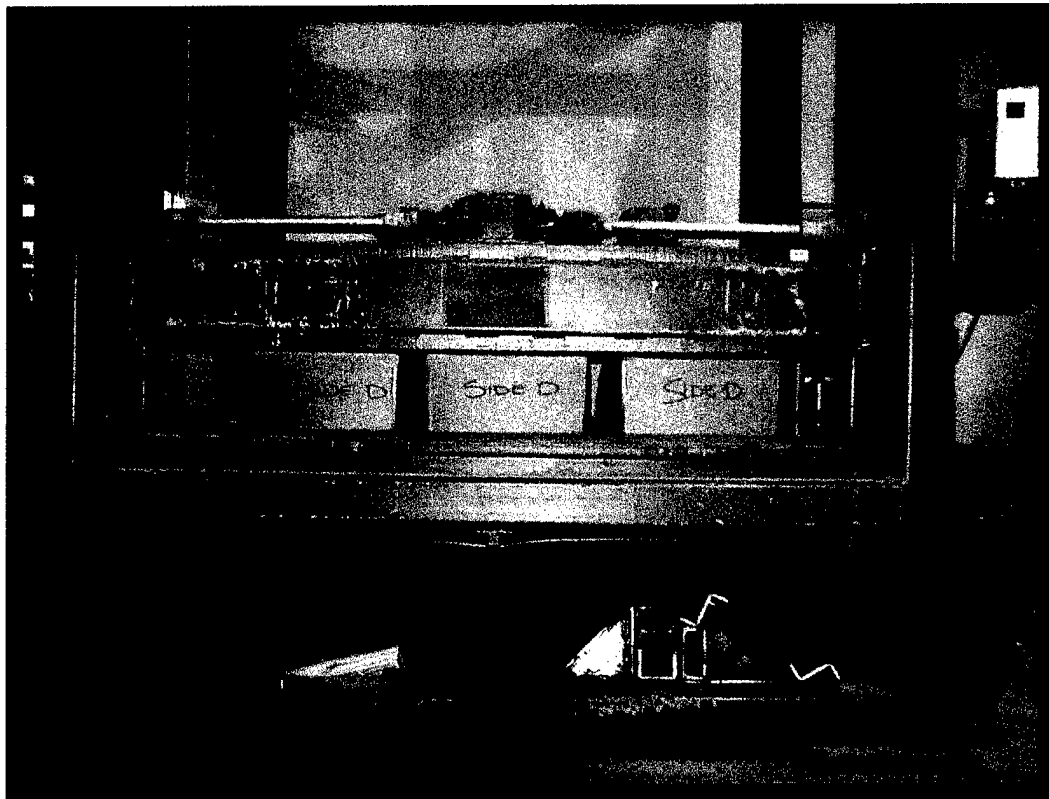


Figure 2. Compression Setup for UN POP Testing

C. DROP TEST. Drop tests were conducted on 13 December 2000 from 5.8 feet. The impact surface was a steel sheet covering a concrete surface that provided an unyielding surface. The drops conducted were oriented flat-bottom, flat-top, flat-long side, flat-short side, and corner. Post drop inspections showed no significant damage. Figure 4 shows the setup used for the drop tests.

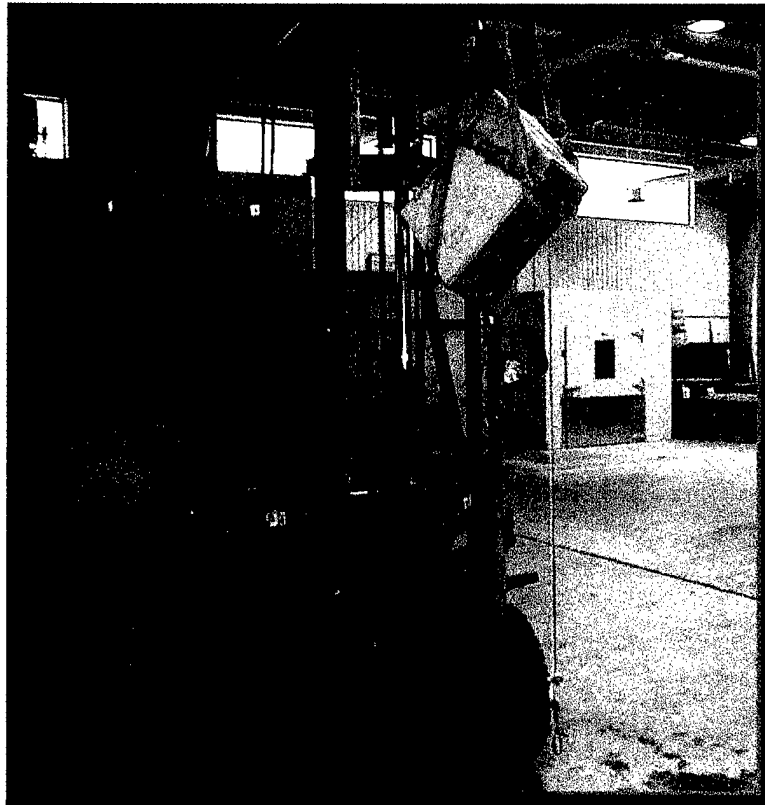


Figure 4. Drop Test Setup for UN POP Testing

The above tests met the requirements of ASTM E 499-73.

UN POP TESTS (STANDARD FORM)

BOX, FIBERBOARD, PACKING, REUSABLE,
COLLAPSIBLE, FOR HIGH EXPLOSIVES, PART NO. 7548645

MANUFACTURED BY CONFEDERATE PACKAGING,
UNITED NATIONS (UN) PERFORMANCE ORIENTED
PACKAGING (POP) TESTS - RECERTIFICATION

U.S. Army Defense Ammunition Center
ATTN: SMAAC-DEV, 1 C Tree Road
McAlester, OK 74501-9053

918-420-8908

Jerry W. Beaver

Test Report Number: 01-11

Service Code: DEV

Product NSN: 1376-00-628-3333

Nomenclature: TNT, Type I, Flake

Shipping Name: Trinitrotoluene

UN ID Number: 209

Hazard Class: 1.1D

Packaging Group: II

Physical State: Solid

NALC/DODAC: ML51

CAA Number: N/A

EX Number: 8801519

CFR 49 Packaging Method: E-26

Net Explosive Weight: 55 lbs

DESCRIPTION OF PACKAGINGS TO BE TESTED

EXTERIOR CONTAINER

Exterior Container: Box, Fiberboard, Packing, Reusable, Collapsible, for High Explosives, Part Number 7548645

CFR 49 Reference Number: 173.7A

UN Code: 1A2

NSN Exterior Container: None

Specifications: 4G

Net Quantity Weight: 60lbs. (25 kg)

Tested Gross Weight: 65 lbs. (27.3 kg)

Dimensions Interior: 17 5/8 X 14 3/8 X 7 1/8

Manufacturer: Confederate Packaging, Macon, GA

Year Container Manufacturer: 2000

Drawing Number(s): 19203-7548645

Cushioning: None

Closure: None

INTERMEDIATE CONTAINER

Intermediate Container Description: None

Specification Number: N/A

Container NSN: N/A

Intermediate Container Cushioning: N/A

Intermediate Container Closure Method: N/A

Intermediate Container Dimensions: N/A

Number Of Intermediate Containers: N/A

UNIT CONTAINER

Unit Container Description: Plastic Liner Bag

Unit Container Specification: MIL-L-10547

Unit Container NSN: N/A

Unit Container Cushioning: None

Unit Container Closure Method: Non-Metallic Tape

Unit Container Dimensions: 29 L x 33 W

Number of Unit Containers: 1

SPECIAL NOTES

All exterior, intermediate, and unit containers must be inspected prior to use.

Inspect for physical damage, structural integrity and leakproofness of the containers.

SUPPLEMENTAL INFORMATION

Permitted Transportation Modes: DOD or commercial licensed truck and rail.

Specific Gravity: N/A

Hydrostatic Test Pressure Applied: N/A

Leakproofness Test Applied: N/A

TEST PROCEDURES

Test Conducted	Test Method	Test Results
(1) Pre-Conditioning (fiberboard)	Part 178.602	N/A
(2) Drop Test	Part 178.603(e)(1)(ii)	Pass
(3) Leakproofness Test	Part 178.604	N/A
(4) Hydrostatic Pressure Test	Part 178.605	N/A
(5) Stacking Test (2,740 lbs.)	Part 178.606(c)(1)	Pass
(6) Vibration Test	Part 178.608(b)(3)	Pass

UN POP Marking

U 4G/Y30/S/**

N USA/DOD/DEV

**Denotes year of manufacture

CERTIFICATION

Unless expressly stated to the contrary, we certify that all of the above applicable tests have been performed in strict conformance to CFR 49, Subpart M, Parts 178.600 – 178.608. Based on the successful test results shown above, this container is deemed suitable for transport of the hazardous material described herein, provided that maximum tested weights and quantities are not exceeded and the packaging is assembled as tested. The use of other packaging methods or components may make this test invalid.

PREPARED BY:


PHILIP W. BARICKMAN
Test Engineer

DATE: 3/20/2001

SUBMITTED BY:


JERRY W. BEAVER
Chief, Validation Engineering Division

DATE: 3/23/2001

APPROVED BY:


WILLIAM R. FRERICHS
Associate Director for Engineering

DATE: 29 MAR 2001

PART 5 – SPECIAL PACKAGING INSTRUCTIONS

For special packaging instructions, see Sheet 3 of Drawing 19203-7548645.

5-2

APPLICABLE STANDARDS/SPECIFICATIONS:

A. MIL-STD-1300-100-1082

B. ANSI V14.3M-1982

C. MIL-A-2559

2- FOR GROSS WEIGHT OF THE PACKAGE, AND FOUR POUNDS TO NET WEIGHT.

3- TO DETERMINE COMPLIANCE WITH THESE DIMENSIONS MEASUREMENT SHALL BE TAKEN WITH ALL SIDES OF COVER AND BODY HELD RIGIDLY IN VERTICAL POSITION.

4- INSIDE LENGTH AND WIDTH OF COVER SHALL NOT EXCEED CORRESPONDING OUTER DIMENSIONS OF BODY BY MORE THAN 1/8 INCH, AS MEASURED WITH ALL SIDES HELD RIGIDLY IN VERTICAL POSITION.

5- COVER FLAPS SHALL BE GLUED TO LONGER SIDE INSIDE LENGTH WHEN BOX IS IN SQUARE POSITION.

6- RECTANGULAR BOTTOM AND LAY BAGS MAY BE USED INTERCHANGEABLY.

7- AN ALTERNATE PROPER SHIPPING NAME FOR OCTOL IS OCTOLITE AND MAY BE USED IN LIEU OF OCTOL.

TABLE 3. BOX SIZES

(SEE NOTES 3 & 4)

BOX NO.	BOX DIM.	INSIDE	OUTSIDE	NET WT.	MAX. NET WT.
1	14 1/2	14 1/2	15 1/2	15 1/2	1.0
2	15 1/2	15 1/2	16 1/2	16 1/2	1.2
3	16 1/2	16 1/2	17 1/2	17 1/2	1.0
4	17 1/2	17 1/2	18 1/2	18 1/2	1.2

TABLE 4. LAYER SIZES

(SEE NOTE 5)

BOX NO.	RECTANGULAR BOTTOM BAG	LAY BAG	CASE LAYER NO. 1-10847
1	14 1/2	14 1/2	14 1/2
2	15 1/2	15 1/2	15 1/2
3	16 1/2	16 1/2	16 1/2
4	17 1/2	17 1/2	17 1/2

REFERENCE DATA FOR ALTERNATE TMT BOX SEE DWG C9257923 FOR INTERPLANT SHIPMENT AND LONG TERM STORAGE.

DISTRIBUTION STATEMENT A
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DISTRIBUTION IS UNLIMITED.

TABLE 2. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
1	COMPOSITION A, TYPE I	HEXOLITE UN 6118	50	1376-00-428-3346
2	COMPOSITION A, TYPE II	HEXOLITE UN 6118	50	1376-00-428-3346
3	COMPOSITION A, TYPE III	HEXOLITE UN 6118	50	1376-00-428-3346
4	COMPOSITION A, TYPE IV	HEXOLITE UN 6118	50	1376-00-428-3346
5	COMPOSITION A, TYPE V	HEXOLITE UN 6118	50	1376-00-428-3346
6	COMPOSITION A, TYPE VI	HEXOLITE UN 6118	50	1376-00-428-3346
7	COMPOSITION A, TYPE VII	HEXOLITE UN 6118	50	1376-00-428-3346
8	COMPOSITION A, TYPE VIII	HEXOLITE UN 6118	50	1376-00-428-3346
9	COMPOSITION A, TYPE IX	HEXOLITE UN 6118	50	1376-00-428-3346
10	COMPOSITION A, TYPE X	HEXOLITE UN 6118	50	1376-00-428-3346
11	COMPOSITION A, TYPE XI	HEXOLITE UN 6118	50	1376-00-428-3346
12	COMPOSITION A, TYPE XII	HEXOLITE UN 6118	50	1376-00-428-3346
13	COMPOSITION A, TYPE XIII	HEXOLITE UN 6118	50	1376-00-428-3346
14	COMPOSITION A, TYPE XIV	HEXOLITE UN 6118	50	1376-00-428-3346
15	COMPOSITION A, TYPE XV	HEXOLITE UN 6118	50	1376-00-428-3346
16	COMPOSITION A, TYPE XVI	HEXOLITE UN 6118	50	1376-00-428-3346
17	COMPOSITION A, TYPE XVII	HEXOLITE UN 6118	50	1376-00-428-3346
18	COMPOSITION A, TYPE XVIII	HEXOLITE UN 6118	50	1376-00-428-3346
19	COMPOSITION A, TYPE XIX	HEXOLITE UN 6118	50	1376-00-428-3346
20	COMPOSITION A, TYPE XX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 1. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
21	COMPOSITION A, TYPE XXI	HEXOLITE UN 6118	50	1376-00-428-3346
22	COMPOSITION A, TYPE XXII	HEXOLITE UN 6118	50	1376-00-428-3346
23	COMPOSITION A, TYPE XXIII	HEXOLITE UN 6118	50	1376-00-428-3346
24	COMPOSITION A, TYPE XXIV	HEXOLITE UN 6118	50	1376-00-428-3346
25	COMPOSITION A, TYPE XXV	HEXOLITE UN 6118	50	1376-00-428-3346
26	COMPOSITION A, TYPE XXVI	HEXOLITE UN 6118	50	1376-00-428-3346
27	COMPOSITION A, TYPE XXVII	HEXOLITE UN 6118	50	1376-00-428-3346
28	COMPOSITION A, TYPE XXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
29	COMPOSITION A, TYPE XXIX	HEXOLITE UN 6118	50	1376-00-428-3346
30	COMPOSITION A, TYPE XXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 5. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
31	COMPOSITION A, TYPE XXXI	HEXOLITE UN 6118	50	1376-00-428-3346
32	COMPOSITION A, TYPE XXXII	HEXOLITE UN 6118	50	1376-00-428-3346
33	COMPOSITION A, TYPE XXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
34	COMPOSITION A, TYPE XXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
35	COMPOSITION A, TYPE XXXV	HEXOLITE UN 6118	50	1376-00-428-3346
36	COMPOSITION A, TYPE XXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
37	COMPOSITION A, TYPE XXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
38	COMPOSITION A, TYPE XXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
39	COMPOSITION A, TYPE XXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
40	COMPOSITION A, TYPE XL	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 6. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
41	COMPOSITION A, TYPE XLI	HEXOLITE UN 6118	50	1376-00-428-3346
42	COMPOSITION A, TYPE XLII	HEXOLITE UN 6118	50	1376-00-428-3346
43	COMPOSITION A, TYPE XLIII	HEXOLITE UN 6118	50	1376-00-428-3346
44	COMPOSITION A, TYPE XLIV	HEXOLITE UN 6118	50	1376-00-428-3346
45	COMPOSITION A, TYPE XLV	HEXOLITE UN 6118	50	1376-00-428-3346
46	COMPOSITION A, TYPE XLVI	HEXOLITE UN 6118	50	1376-00-428-3346
47	COMPOSITION A, TYPE XLVII	HEXOLITE UN 6118	50	1376-00-428-3346
48	COMPOSITION A, TYPE XLVIII	HEXOLITE UN 6118	50	1376-00-428-3346
49	COMPOSITION A, TYPE XLIX	HEXOLITE UN 6118	50	1376-00-428-3346
50	COMPOSITION A, TYPE L	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 7. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
51	COMPOSITION A, TYPE LI	HEXOLITE UN 6118	50	1376-00-428-3346
52	COMPOSITION A, TYPE LII	HEXOLITE UN 6118	50	1376-00-428-3346
53	COMPOSITION A, TYPE LIII	HEXOLITE UN 6118	50	1376-00-428-3346
54	COMPOSITION A, TYPE LIV	HEXOLITE UN 6118	50	1376-00-428-3346
55	COMPOSITION A, TYPE LV	HEXOLITE UN 6118	50	1376-00-428-3346
56	COMPOSITION A, TYPE LVI	HEXOLITE UN 6118	50	1376-00-428-3346
57	COMPOSITION A, TYPE LVII	HEXOLITE UN 6118	50	1376-00-428-3346
58	COMPOSITION A, TYPE LVIII	HEXOLITE UN 6118	50	1376-00-428-3346
59	COMPOSITION A, TYPE LIX	HEXOLITE UN 6118	50	1376-00-428-3346
60	COMPOSITION A, TYPE LX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 8. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
61	COMPOSITION A, TYPE LXI	HEXOLITE UN 6118	50	1376-00-428-3346
62	COMPOSITION A, TYPE LXII	HEXOLITE UN 6118	50	1376-00-428-3346
63	COMPOSITION A, TYPE LXIII	HEXOLITE UN 6118	50	1376-00-428-3346
64	COMPOSITION A, TYPE LXIV	HEXOLITE UN 6118	50	1376-00-428-3346
65	COMPOSITION A, TYPE LXV	HEXOLITE UN 6118	50	1376-00-428-3346
66	COMPOSITION A, TYPE LXVI	HEXOLITE UN 6118	50	1376-00-428-3346
67	COMPOSITION A, TYPE LXVII	HEXOLITE UN 6118	50	1376-00-428-3346
68	COMPOSITION A, TYPE LXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
69	COMPOSITION A, TYPE LXIX	HEXOLITE UN 6118	50	1376-00-428-3346
70	COMPOSITION A, TYPE LXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 9. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
71	COMPOSITION A, TYPE LXXI	HEXOLITE UN 6118	50	1376-00-428-3346
72	COMPOSITION A, TYPE LXXII	HEXOLITE UN 6118	50	1376-00-428-3346
73	COMPOSITION A, TYPE LXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
74	COMPOSITION A, TYPE LXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
75	COMPOSITION A, TYPE LXXV	HEXOLITE UN 6118	50	1376-00-428-3346
76	COMPOSITION A, TYPE LXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
77	COMPOSITION A, TYPE LXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
78	COMPOSITION A, TYPE LXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
79	COMPOSITION A, TYPE LXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
80	COMPOSITION A, TYPE LXXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 10. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
81	COMPOSITION A, TYPE LXXXI	HEXOLITE UN 6118	50	1376-00-428-3346
82	COMPOSITION A, TYPE LXXXII	HEXOLITE UN 6118	50	1376-00-428-3346
83	COMPOSITION A, TYPE LXXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
84	COMPOSITION A, TYPE LXXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
85	COMPOSITION A, TYPE LXXXV	HEXOLITE UN 6118	50	1376-00-428-3346
86	COMPOSITION A, TYPE LXXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
87	COMPOSITION A, TYPE LXXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
88	COMPOSITION A, TYPE LXXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
89	COMPOSITION A, TYPE LXXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
90	COMPOSITION A, TYPE LXXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 11. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
91	COMPOSITION A, TYPE LXXXI	HEXOLITE UN 6118	50	1376-00-428-3346
92	COMPOSITION A, TYPE LXXXII	HEXOLITE UN 6118	50	1376-00-428-3346
93	COMPOSITION A, TYPE LXXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
94	COMPOSITION A, TYPE LXXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
95	COMPOSITION A, TYPE LXXXV	HEXOLITE UN 6118	50	1376-00-428-3346
96	COMPOSITION A, TYPE LXXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
97	COMPOSITION A, TYPE LXXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
98	COMPOSITION A, TYPE LXXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
99	COMPOSITION A, TYPE LXXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
100	COMPOSITION A, TYPE LXXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 12. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
101	COMPOSITION A, TYPE LXXXI	HEXOLITE UN 6118	50	1376-00-428-3346
102	COMPOSITION A, TYPE LXXXII	HEXOLITE UN 6118	50	1376-00-428-3346
103	COMPOSITION A, TYPE LXXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
104	COMPOSITION A, TYPE LXXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
105	COMPOSITION A, TYPE LXXXV	HEXOLITE UN 6118	50	1376-00-428-3346
106	COMPOSITION A, TYPE LXXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
107	COMPOSITION A, TYPE LXXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
108	COMPOSITION A, TYPE LXXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
109	COMPOSITION A, TYPE LXXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
110	COMPOSITION A, TYPE LXXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 13. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
111	COMPOSITION A, TYPE LXXXI	HEXOLITE UN 6118	50	1376-00-428-3346
112	COMPOSITION A, TYPE LXXXII	HEXOLITE UN 6118	50	1376-00-428-3346
113	COMPOSITION A, TYPE LXXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
114	COMPOSITION A, TYPE LXXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
115	COMPOSITION A, TYPE LXXXV	HEXOLITE UN 6118	50	1376-00-428-3346
116	COMPOSITION A, TYPE LXXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
117	COMPOSITION A, TYPE LXXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
118	COMPOSITION A, TYPE LXXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
119	COMPOSITION A, TYPE LXXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
120	COMPOSITION A, TYPE LXXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 14. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
121	COMPOSITION A, TYPE LXXXI	HEXOLITE UN 6118	50	1376-00-428-3346
122	COMPOSITION A, TYPE LXXXII	HEXOLITE UN 6118	50	1376-00-428-3346
123	COMPOSITION A, TYPE LXXXIII	HEXOLITE UN 6118	50	1376-00-428-3346
124	COMPOSITION A, TYPE LXXXIV	HEXOLITE UN 6118	50	1376-00-428-3346
125	COMPOSITION A, TYPE LXXXV	HEXOLITE UN 6118	50	1376-00-428-3346
126	COMPOSITION A, TYPE LXXXVI	HEXOLITE UN 6118	50	1376-00-428-3346
127	COMPOSITION A, TYPE LXXXVII	HEXOLITE UN 6118	50	1376-00-428-3346
128	COMPOSITION A, TYPE LXXXVIII	HEXOLITE UN 6118	50	1376-00-428-3346
129	COMPOSITION A, TYPE LXXXIX	HEXOLITE UN 6118	50	1376-00-428-3346
130	COMPOSITION A, TYPE LXXX	HEXOLITE UN 6118	50	1376-00-428-3346

TABLE 15. HIGH EXPLOSIVES

LINE NO.	DESIGNATION	PROPER SHIPPING NAME	NET WEIGHT (LBS)	NATIONAL STOCK NUMBER
131	COMPOSITION A, TYPE LXXXI			